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# Maine Agricultural Experiment Station

BULLETIN No. 60.

MARCH, 1900.

## FERTILIZER INSPECTION.

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This Bulletin contains the analyses of Manufacturer's samples of brands of Fertilizers licensed before March 7, 1900. Dealers are cautioned to consult with the Station before offering brands not given in this Bulletin.

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Requests for the Bulletins should be addressed to the

AGRICULTURAL EXPERIMENT STATION,

Orono; Maine.

## DESCRIPTIVE LIST OF MANUFACTURERS' SAMPLES, 1900.

Station number.	Manufacturer, place of business and brand.
	<b>HIRAM BLANCHARD, EASTPORT, ME.</b>
2319	Blanchard's Fish, Bone and Potash.....
2320	Blanchard's Grass and Grain Fertilizer .....
2115	Blanchard's Ground Fish Scrap No. 2 .....
	<b>THE BOWKER FERTILIZER CO., BOSTON, MASS.</b>
1852	Bowker's Corn Phosphate.....
2370	Bowker's Early Potato Manure .....
1251	Bowker's Farm and Garden Phosphate .....
2371	Bowker's Fresh Ground Bone Phosphate .....
1248	Bowker's Hill and Drill Phosphate .....
2372	Bowker's Potash Bone.....
1249	Bowker's Potato and Vegetable Fertilizer .....
1389	Bowker's Potato and Vegetable Phosphate .....
1390	Bowker's Six Per Cent Potato Fertilizer .....
1250	Bowker's Square Brand Bone and Potash.....
1866	Bowker's Staple Phosphate or Three Per Cent Fertilizer .....
2374	Bowker's Sure Crop Phosphate.....
1588	Bowker's Ten Per Cent Manure .....
1871	Gloucester Fish and Potash.....
1580	Stockbridge Corn and Grain Manure.....
1870	Stockbridge Pea and Bean Manure .....
1388	Stockbridge Potato and Vegetable Manure .....
2873	Stockbridge Seeding Down Manure.....
	<b>BRADLEY FERTILIZER CO., BOSTON, MASS.</b>
2112	Bradley's Complete Manure for Potatoes and Vegetables.....
2821	Bradley's Corn Phosphate.....
2111	Bradley's Eureka Fertilizer.....
2322	Bradley's Niagara Phosphate .....
2323	Bradley's Potato Fertilizer .....
2324	Bradley's Potato Manure .....
2325	Bradley's X. L. Superphosphate.....
	<b>CLEVELAND DRYER CO., BOSTON, MASS.</b>
1607	Cleveland Fertilizer for All Crops .....
2329	Cleveland Potato Phosphate.....
2109	Cleveland Seeding Down Fertilizer .....
2330	Cleveland Superphosphate.....
	<b>E. FRANK COE CO., NEW YORK, N. Y.</b>
2117	E. Frank Coe's Columbia Corn Fertilizer .....
2118	E. Frank Coe's Columbian Potato Fertilizer .....
2119	E. Frank Coe's Excelsior Potato Fertilizer .....
1617	E. Frank Coe's Grass and Grain Special .....
2116	E. Frank Coe's High Grade Ammoniated Bone Superphosphate .....
1884	E. Frank Coe's High Grade Potato Fertilizer .....
2388	E. Frank Coe's New Englander Corn Fertilizer .....
2141	E. Frank Coe's New Englander Potato Fertilizer .....
2120	E. Frank Coe's Prize Brand Grain and Grass Fertilizer .....
2389	E. Frank Coe's Red Brand Excelsior Guano .....
1405	E. Frank Coe's Special Potato Fertilizer .....
2121	E. Frank Coe's Standard Grade Ammoniated Bone Superphosphate .....

## ANALYSES OF MANUFACTURERS' SAMPLES, 1900.

Station number.	NITROGEN.				PHOSPHORIC ACID.						POTASH.	
	Soluble in water.	Insoluble in water.	Total.	Guaranteed.	Soluble.	Reverted.	Insoluble.	Available.	Guaranteed.	Total.	Found.	Guaranteed.
	%	%	%	%	%	%	%	%	%	%	%	%
2319	1.08	2.28	3.36	3.00	.16	2.68	.98	2.84	3.00	3.82	4.00	3.45
2320	.62	2.64	3.26	4.47	.16	2.98	.41	3.14	3.00	3.55	4.28	2.08
2115	.49	3.64	4.13	4.00	.....	3.39	.89	3.39	3.00	4.43	4.00	1.44
1852	.....	1.88	1.60	.....	.....	2.77	8.59	7.00	11.36	9.00	2.26	2.00
2370	1.46	1.54	3.00	3.00	4.21	3.52	2.23	7.73	7.00	9.96	9.00	7.06
1251	.....	1.86	1.50	5.27	3.01	1.79	8.28	8.00	10.07	10.00	2.21	2.00
2371	.77	1.80	2.57	2.25	.....	.....	.....	.....	.....	25.39	24.00	.....
1248	.....	2.60	2.25	7.36	1.87	3.08	9.23	9.00	12.31	12.00	2.52	2.00
2372	.53	.36	.89	.75	2.54	4.80	1.91	7.34	6.00	9.25	8.00	2.70
1249	.....	2.54	2.25	3.79	2.54	4.31	6.33	8.00	10.64	10.00	4.42	4.00
1389	.....	1.77	1.50	3.83	3.50	5.40	7.33	8.00	12.73	10.00	2.34	2.00
1390	.....	1.01	.75	3.93	3.92	3.86	7.81	7.00	11.67	10.00	6.38	6.00
1250	.....	1.79	1.50	.....	6.40	7.19	6.40	6.00	13.59	12.00	2.21	2.00
1866	.....	1.00	.75	.....	.....	3.18	8.68	8.00	11.86	10.00	3.65	3.00
2374	.29	.50	.79	.75	6.36	3.70	2.23	10.06	9.00	12.29	11.00	2.30
1588	.....	1.15	.75	1.30	5.17	3.61	6.47	6.00	10.08	8.00	10.98	10.00
1871	.....	.97	.75	.....	.....	4.86	6.55	6.00	11.44	9.00	1.76	1.00
1580	.....	3.33	3.00	6.78	1.85	1.91	8.63	8.00	10.54	10.00	6.55	6.00
1870	.....	2.51	2.00	.....	.....	3.21	6.89	6.00	10.10	8.00	6.28	6.00
1388	.....	3.43	3.25	3.12	2.11	4.26	5.25	6.00	9.49	7.00	9.76	10.00
2373	.92	1.26	2.18	2.50	5.22	3.33	1.94	8.55	6.00	10.49	10.00	10.50
2112	1.06	2.40	3.46	4.00	5.36	3.32	1.51	8.68	8.00	10.19	9.00	6.91
2321	.66	1.42	2.08	2.50	7.05	2.55	2.56	9.60	8.00	12.16	10.00	2.01
2111	.11	1.06	1.17	1.25	5.93	2.35	1.55	8.28	8.00	9.83	9.00	2.32
2322	.40	.64	1.04	1.00	5.41	3.15	1.38	8.56	7.00	9.94	8.00	1.49
2323	.77	1.22	1.99	2.50	5.74	4.74	2.54	10.48	8.00	13.02	10.00	3.17
2324	.81	1.58	2.39	3.00	2.89	3.80	3.18	6.69	6.00	9.87	8.00	5.15
2325	1.10	1.36	2.46	3.00	6.74	3.16	1.80	9.90	9.00	11.70	11.00	2.68
1607	.....	1.48	1.03	6.71	2.16	2.35	8.87	8.00	11.22	9.00	2.42	2.00
2329	.62	1.34	1.96	2.05	5.95	3.99	2.74	9.94	8.00	12.68	10.00	3.03
2109	.11	1.06	1.17	1.03	5.79	2.89	1.27	8.68	8.00	9.95	9.00	2.20
2330	.66	1.40	2.06	2.03	7.17	2.35	2.62	9.52	8.00	12.14	9.00	2.03
2117	.28	1.22	1.50	1.23	5.97	2.86	2.67	8.88	8.50	11.50	10.50	2.94
2118	.25	1.19	1.44	1.20	5.85	2.97	2.60	8.82	8.50	11.45	10.00	2.75
2119	.65	2.02	2.67	2.50	6.14	1.34	1.27	7.48	7.00	8.75	9.00	9.91
1617	.....	2.83	.80	7.88	2.96	3.63	10.84	8.50	14.47	10.00	1.21	1.50
2116	.....	1.68	1.85	5.97	2.62	2.50	8.59	9.00	11.42	11.00	2.90	2.50
1884	.....	2.50	2.40	.....	.....	1.29	7.71	7.00	9.00	8.00	7.86	6.50
2388	1.76	1.82	3.60	.80	5.88	1.86	1.44	7.71	7.50	9.11	.....	8.99
2141	.20	.95	1.15	.80	7.77	2.98	1.96	10.75	7.50	12.71	9.00	3.46
2120	.....	.....	.....	.....	12.30	2.57	.47	14.87	10.50	15.34	12.00	.67
2389	.88	.40	1.28	3.40	6.94	2.33	2.40	9.27	9.00	11.76	.....	3.81
1405	.....	1.95	1.65	7.43	1.82	4.20	9.25	8.00	13.45	10.00	4.58	4.00
2121	.27	1.26	1.53	1.20	6.32	2.33	2.87	8.65	8.00	11.52	10.00	2.45

## DESCRIPTIVE LIST OF MANUFACTURERS' SAMPLES, 1900.

Station number.

Manufacturer, place of business and brand.

	CROCKER FERTILIZER AND CHEMICAL CO., BUFFALO, N. Y.
2331	Crocker's Ammoniated Corn Phosphate .....
2332	Crocker's Grass and Oats Fertilizer .....
2333	Crocker's New Rival Ammoniated Superphosphate .....
2334	Crocker's Potato, Hop and Tobacco Phosphate .....
2335	Crocker's Superior Fertilizer .....
	CUMBERLAND BONE PHOSPHATE CO., PORTLAND, ME.
2336	Cumberland Potato Fertilizer .....
1395	Cumberland Seeding Down Manure .....
2337	Cumberland Superphosphate .....
	CLARK'S COVE FERTILIZER CO., BOSTON, MASS.
2326	Bay State Fertilizer .....
2327	Bay State Fertilizer, G. G .....
1219	Bay State Fertilizer for Seeding Down .....
2328	King Philip Alkaline Guano .....
	L. B. DARLING FERTILIZER CO., PAWTUCKET, R. I.
2376	Darling's Animal Fertilizer, G. Brand .....
2377	Darling's Blood, Bone and Potash .....
	GREAT EASTERN FERTILIZER CO., RUTLAND, VT.
1578	Great Eastern Dissolved Bone .....
1230	Great Eastern General Fertilizer .....
1231	Great Eastern Grass and Oats Fertilizer .....
2384	*Great Eastern Northern Corn Special .....
2383	*Great Eastern Potato Manure .....
	LOWELL FERTILIZER CO., BOSTON, MASS.
1874	Swift's Lowell Animal Fertilizer .....
1875	Swift's Lowell Bone Fertilizer .....
1876	Swift's Lowell Dissolved Bone and Potash .....
1879	Swift's Lowell Fruit and Vine Fertilizer .....
2386	Swift's Lowell Ground Bone .....
2387	Swift's Lowell Potato Manure .....
1877	Swift's Lowell Potato Phosphate .....
	LISTER'S AGRICULTURAL CHEMICAL WORKS, NEWARK, N. J.
2105	Lister's Seeding Down Fertilizer .....
2104	Lister's Special Potato Fertilizer .....
2103	Lister's Success Fertilizer .....
2102	Lister's U. S. Superphosphate .....
	NATIONAL FERTILIZER CO., BRIDGEPORT, CONN.
1885	Chittenden's Ammoniated Bone .....
1886	Chittenden's Complete Fertilizer .....
2385	Chittenden's Market Garden .....
	NEW ENGLAND FERTILIZER CO., BOSTON, MASS.
2378	New England Corn Phosphate .....
2379	New England Potato Fertilizer .....
	SAMUEL G. OTIS, HALLOWELL, ME.
2369	Otis Potato Fertilizer .....
2380	Otis Seeding Down Fertilizer .....
2368	Otis Superphosphate .....
	PACIFIC GUANO CO., BOSTON, MASS.
2338	Pacific Guano Company's Grass and Grain Fertilizer .....
2339	Pacific Guano Company's Nobsque Guano .....
2340	Pacific Guano Company's Potato Special .....
2341	Pacific Guano Company's Soluble Pacific Guano .....
	PACKER'S UNION FERTILIZER CO., NEW YORK, N. Y.
2342	Packer's Union Animal Corn Fertilizer .....
2343	Packer's Union Economical Vegetable Guano .....
2344	Packer's Union High Grade Potato Manure .....
2345	Packer's Union Universal Fertilizer .....
1619	Packer's Union Wheat, Oats and Clover Fertilizer .....

\* Not yet analyzed.

## ANALYSES OF MANUFACTURERS' SAMPLES, 1900.

Station number.	NITROGEN.				PHOSPHORIC ACID.						POTASH.	
	Soluble in water.	Insoluble in water.	Total.	Guaranteed.	Soluble.	Reverted.	Insoluble.	Available.	Guaranteed.	Total.	Guaranteed.	Found.
	%	%	%	%	%	%	%	%	%	%	%	%
2331	.26	2.06	2.32	2.05	4.52	3.65	3.87	8.17	8.00	12.04	9.00	2.26
2332	.....	.18	.18	.....	7.54	4.28	1.79	11.82	11.00	13.61	12.06	2.03
2333	.23	1.14	1.37	1.03	4.82	3.70	2.47	8.52	8.00	10.99	9.00	2.12
2334	.28	1.98	2.26	2.05	4.31	3.68	3.74	7.99	8.00	11.73	9.00	3.65
2335	.10	.96	1.06	.82	5.19	3.87	2.11	9.06	8.00	11.17	9.00	2.12
2336	.72	1.34	2.06	2.06	6.13	4.17	2.33	10.30	8.00	12.63	9.00	3.38
1395	.....	1.10	1.03	.....	5.82	1.98	2.11	7.80	8.00	9.91	10.00	2.93
2337	.56	1.38	1.94	2.06	7.01	2.38	2.55	9.39	8.00	11.94	9.00	2.35
2326	1.14	1.32	2.46	2.47	7.26	3.08	1.80	10.34	9.00	12.14	10.00	2.35
2327	.62	1.40	2.02	2.06	7.21	2.42	2.36	9.63	8.00	11.99	9.00	1.95
1219	.....	2.33	1.03	.....	7.18	2.55	1.89	9.73	8.00	11.62	10.00	2.59
2328	.43	.68	1.11	1.03	5.71	2.67	1.47	8.38	8.00	9.85	9.00	2.12
2376	.77	1.32	2.09	2.06	5.49	4.68	2.41	10.17	8.00	12.58	9.00	3.22
2377	.....	4.21	4.21	4.12	6.47	1.27	.26	7.74	7.00	8.00	8.00	9.01
1578	.....	.....	.....	.....	9.27	5.86	1.36	15.13	14.00	16.49	14.00	.....
1230	.....	1.10	.82	.....	.69	9.25	2.26	9.94	8.00	12.20	8.00	4.72
1231	.....	.....	.....	.....	4.11	6.88	4.08	10.99	11.00	13.07	11.00	2.15
2384	.42	1.84	2.26	2.06	5.02	4.60	2.35	9.62	8.00	11.97	8.00	2.26
2383	.96	1.20	2.16	2.06	4.67	3.92	2.64	8.59	8.00	11.23	8.00	5.33
1874	.....	.....	2.85	2.46	.....	.....	1.01	10.38	9.00	11.39	10.00	4.10
1875	.....	.....	2.06	1.64	.....	.....	1.31	8.27	8.00	9.58	9.00	3.56
1876	.....	.....	1.90	1.64	.....	.....	1.73	9.33	9.00	11.06	10.00	2.45
1879	.....	.....	3.69	3.29	.....	.....	.96	7.72	7.00	8.68	8.00	6.44
2386	.....	.....	2.38	2.46	.....	.....	.....	5.00	27.24	22.90	.....	.....
2387	.78	.94	1.72	1.64	3.33	4.47	1.35	7.80	7.00	9.15	8.00	4.52
1877	.....	.....	2.61	2.46	.....	.....	1.08	9.41	8.00	10.49	9.00	6.96
2105	.....	.....	.90	.62	7.58	2.64	2.47	10.22	10.00	12.69	11.00	1.06
2104	.25	1.46	1.71	1.65	5.87	2.52	2.38	8.39	8.00	10.77	9.00	2.94
2103	.27	1.22	1.49	1.24	7.23	2.33	2.43	9.56	9.50	11.99	11.50	2.06
2102	.19	1.35	1.54	1.32	5.09	2.34	2.08	7.43	7.00	9.46	8.00	2.39
1885	.....	.....	2.42	1.60	.....	.....	1.61	9.72	9.00	11.33	10.00	3.69
1886	.....	.....	3.79	3.30	.....	.....	1.33	9.35	8.00	10.68	10.00	6.31
2385	1.22	1.00	2.22	2.47	4.45	2.60	2.48	7.05	6.00	9.53	8.00	5.94
2378	.76	1.02	1.78	1.64	3.85	4.93	1.33	8.78	8.00	10.11	9.00	3.23
2379	.88	.88	1.76	1.64	3.46	4.89	.98	8.35	7.00	9.33	8.00	4.28
2369	.77	1.22	1.99	2.06	5.68	5.03	2.42	10.71	8.00	13.13	10.00	3.20
2380	.49	.62	1.11	1.25	5.46	2.89	1.35	8.35	8.00	9.70	10.00	1.56
2365	.68	1.38	2.06	2.06	6.94	2.92	2.43	9.86	8.00	12.29	10.00	2.16
2338	.42	.64	1.06	.82	5.46	3.01	1.43	8.47	7.00	9.90	8.00	2.99
2339	.40	.66	1.06	1.03	5.52	2.66	1.63	8.18	8.00	9.81	9.00	1.97
2340	.76	1.34	2.10	2.05	5.69	4.27	2.70	9.96	8.00	12.66	9.00	3.15
2341	.52	1.46	1.98	2.06	6.72	2.72	2.32	9.44	8.00	11.76	9.00	1.91
2342	.31	2.10	2.41	2.47	5.64	3.22	3.46	8.86	9.00	12.32	10.00	1.91
2343	.26	1.42	1.68	1.25	4.65	2.55	2.15	7.20	6.00	9.35	7.00	3.59
2344	.96	1.10	2.06	2.06	4.85	3.16	1.85	8.01	8.00	9.86	9.00	2.26
2345	.25	.96	1.21	.8235	6.05	3.92	1.46	9.27	8.00	10.73	9.00	5.04
1619	.....	.....	.25	.....	.....	.....	1.20	10.92	11.00	12.12	12.00	2.39

## DESCRIPTIVE LIST OF MANUFACTURERS' SAMPLES, 1900.

Station number.

Manufacturer, place of business and brand.

2124	PARMENTER & POLSEY FERTILIZER CO., PEABODY, MASS.
2128	Parmenter & Polsey Fertilizer Co.'s Special Potato Fertilizer.....
2128	Plymouth Rock Brand.....
2346	"P. and P." Potato Fertilizer.....
2125	Star Brand Superphosphate.....
	EDWIN J. PHILBRICK, AUGUSTA, ME.
1888	Philbrick's Fertilizer .....
	PORTLAND RENDERING CO., PORTLAND, ME.
1616	Portland Rendering Co.'s Bone Tankage.....
	THE QUINNIPAC CO., BOSTON, MASS.
2347	Quinnipiac Corn Manure.....
2348	Quinnipiac Phosphate.....
2349	Quinnipiac Potato Manure.....
2350	Quinnipiac Potato Phosphate.....
2351	Quinnipiac Seeding Down Manure.....
	READ FERTILIZER CO., NEW YORK, N. Y.
2352	Read's Potato Manure .....
1396	Read's Practical Potato Special.....
1397	Read's Standard Fertilizer .....
2354	Read's Sure Catch Fertilizer.....
2355	Read's Vegetable and Vine Fertilizer .....
2353	Sampson Fertilizer.....
	THE RUSSIA CEMENT CO., GLOUCESTER, MASS.
1410	Essex Complete Manure for Corn, Grain and Grass.....
1411	Essex Complete Manure for Potatoes, Roots and Vegetables.....
2106	Essex Corn Fertilizer .....
2108	Essex Potato Fertilizer .....
1568	Essex XXX Fish and Potash.....
1891	Maine State Grange Chemicals.....
1892	Maine State Grange Potato Manure .....
2107	Maine State Grange Seeding Down Fertilizer .....
	SAGADAHOC FERTILIZER CO., BOWDOINHAM, ME.
2356	Dirigo Fertilizer.....
2357	Merrymeeting Superphosphate .....
2358	Sagadahoc Special Potato Fertilizer.....
2359	Sagadahoc Superphosphate .....
2360	Yankee Fertilizer.....
	STANDARD FERTILIZER CO., BOSTON, MASS.
1414	Standard "A" Brand .....
2361	Standard Fertilizer.....
2362	Standard Guano .....
2363	Standard Special for Potatoes.....
	JOHN WATSON, HOUTON, ME.
2375	Watson's Improved High Grade Potato Manure .....
	WILLIAMS & CLARK FERTILIZER CO., BOSTON, MASS.
2364	Americus Ammoniated Bone Superphosphate .....
2365	Americus Corn Phosphate .....
2366	Americus Potato Manure.....
1236	Royal Bone Phosphate for All Crops.....
2367	Williams & Clark's Potato Phosphate .....

Note.—While this bulletin was in press there was received from the Provincial Chemical Fertilizer Co., of St. John, N. B., the manufacturer's certificate for a Potato Phosphate, having the following guaranteed composition: Nitrogen, 2.88 per cent; available phosphoric acid, 8.00 per cent; potash, 6.50 per cent. The sample forwarded was received too late to allow the analysis to be inserted here.

## ANALYSES OF MANUFACTURERS' SAMPLES, 1900.

Station number.	NITROGEN.				PHOSPHORIC ACID.						POTASH.	
	Soluble in water.		Total.		Soluble.			Available.			Total.	
	Insoluble in water.	Found.	Guaranteed.		Reverted.	Insoluble.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.
2124	1.69	1.29	2.98	3.29	4.21	4.27	1.29	3.48	8.00	9.77	9.00	7.41
2123	.21	2.08	2.29	2.47	3.81	4.21	1.38	8.02	8.00	9.40	9.00	4.19
2346	1.00	.84	1.84	1.64	2.36	5.15	.99	7.51	6.00	8.50	7.00	6.91
2125	1.01	.79	1.80	1.64	3.80	3.54	1.15	7.34	7.00	8.49	8.00	2.60
1888	.38	1.65	2.03	2.00	2.00	5.19	1.74	7.19	7.00	8.93	9.00	5.58
1616	.....	.....	4.27	4.54	.....	7.34	12.06	7.34	.....	19.40	16.65	.....
2347	.67	1.38	2.05	2.06	6.69	2.63	2.41	9.32	8.00	11.73	9.00	1.95
2348	1.20	1.26	2.46	2.47	6.77	3.06	1.97	9.83	9.00	11.80	10.00	2.43
2349	1.03	1.50	2.53	2.47	2.55	4.03	3.06	6.58	6.00	9.64	7.00	5.15
2350	.74	1.30	2.04	2.06	5.61	4.71	2.36	10.32	8.00	12.68	9.00	3.34
2351	.39	.64	1.03	1.03	5.44	3.14	1.46	8.85	8.00	10.04	9.00	2.61
2352	.42	2.28	2.70	2.47	4.59	1.89	1.25	6.48	6.00	7.73	7.00	10.94
1396	.....	.....	1.20	.83	3.39	1.55	.54	4.94	4.00	5.48	5.00	8.35
1397	.....	.....	1.15	.83	6.50	1.73	.92	8.23	8.00	9.15	9.00	4.33
2354	.....	.20	.20	.....	4.64	5.17	1.58	9.81	10.00	11.39	11.00	1.91
2355	.32	1.80	2.12	2.05	5.94	2.25	1.38	8.29	8.00	9.67	9.00	6.35
2353	.52	1.40	1.92	2.05	6.40	2.35	1.89	8.75	8.00	10.64	9.00	2.93
1410	.....	.....	4.00	3.70	3.02	6.39	2.51	9.41	7.00	11.92	9.50	10.52
1411	.....	.....	3.96	3.70	2.60	5.54	2.84	8.14	7.00	10.98	9.00	9.18
2106	.52	1.72	2.24	2.00	5.31	4.03	4.14	9.34	9.00	13.48	10.50	3.33
2108	.63	1.55	2.18	2.00	5.50	4.18	4.08	9.68	9.00	13.76	10.50	5.57
1568	.....	.....	2.68	2.10	8.00	2.63	2.56	10.63	9.00	13.19	12.00	2.75
1891	.82	1.58	2.40	2.50	2.45	5.71	3.89	8.16	8.00	12.05	12.00	4.72
1892	.....	1.02	1.02	1.50	1.34	7.11	3.67	8.45	9.00	12.12	12.00	12.43
2107	.....	1.91	1.91	1.50	3.19	4.24	6.36	7.43	7.00	13.79	13.00	5.69
2356	.31	1.58	1.89	1.50	2.20	2.71	5.48	4.91	3.50	10.39	9.00	3.74
2357	.22	1.16	1.38	1.20	2.81	3.80	3.36	6.61	5.00	9.97	9.00	2.84
2358	1.16	.60	1.76	2.40	6.05	2.86	.73	8.91	6.50	9.64	9.50	7.89
2359	1.01	1.12	2.13	2.05	3.77	4.22	3.05	7.99	6.50	11.07	10.00	5.66
2360	.40	.36	.76	.40	1.83	3.73	.63	5.56	5.50	6.19	7.00	4.54
1414	.....	.....	1.33	.82	4.84	3.08	1.96	7.92	7.00	9.88	9.00	1.71
2361	.60	1.42	2.02	2.06	6.82	2.43	2.55	9.25	8.00	11.80	9.00	2.01
2362	.37	.70	1.07	1.03	5.31	3.03	1.44	8.34	8.00	9.78	9.00	2.10
2363	.82	1.20	2.02	2.05	5.65	5.16	2.40	10.81	8.00	13.21	9.00	2.93
2375	.93	1.18	2.11	3.25	1.98	2.79	1.88	4.77	6.00	6.65	7.00	7.03
2364	.95	1.32	2.27	2.47	6.72	3.08	1.94	9.80	9.00	11.74	10.00	2.35
2365	.56	1.42	1.98	2.06	6.75	2.85	2.29	9.60	8.00	11.89	9.00	1.95
2366	.64	1.32	1.96	2.06	5.52	4.89	2.23	10.41	8.00	12.64	9.00	3.03
1236	.....	.....	1.26	1.03	6.20	3.11	2.23	9.30	8.00	11.54	9.00	2.26
2367	1.02	1.50	2.52	2.47	2.56	4.07	2.94	6.63	6.00	9.57	7.00	5.46

## THE CHIEF PROVISIONS OF THE FERTILIZER LAW APPLYING TO MANUFACTURERS, IMPORTERS AND DEALERS.

The law for the regulation of the sale and analyses of commercial fertilizers makes the following requirements upon manufacturers, importers or dealers who propose to sell or offer for sale commercial fertilizers in the State:

1. *The Brand.* Each package shall bear, conspicuously printed, the following statements:

The number of net pounds contained in each package.

The name or trade mark under which it is sold.

The name of the manufacturer or shipper.

The place of manufacture.

The place of business of manufacturer or shipper.

The percentage of nitrogen or its equivalent in ammonia.

The percentage of potash soluble in water.

The percentage of phosphoric acid in available form.

The percentage of total phosphoric acid.

2. *The Certificate.* There shall be filed annually between Nov. 15 and Dec. 15 with the Director of the Station a certificate containing an accurate statement of the brand. This certificate applies to the next succeeding calendar year. (Blanks for this purpose will be furnished on application to the Station.)

3. *Manufacturer's Samples.* There shall be deposited annually, unless excused by the Director under certain conditions, a sample of fertilizer, with an accompanying affidavit that this sample "corresponds within reasonable limits to the fertilizer which it represents."

4. *Analysis fee.* For each brand of fertilizer sold or offered for sale in the state there shall be paid annually to the Director of the Station "an analysis fee as follows: Ten dollars for the phosphoric acid and five dollars each for the nitrogen and potash, contained or said to be contained in the fertilizer."

5. *The license.* Upon receipt of the fee, the certificate and the sample (if required), the Director of the Station "shall issue a certificate of compliance."

[The full text of the law will be sent to those asking for it.]

CHAS. D. WOODS, *Director.*



